

CLAIMS

We claim:

1. A method for generating mammalian neural crest stem cells comprising inducing neuroepithelial stem cells to differentiate in vitro, thereby generating said neural crest stem cells..

2. The method of claim 1 wherein said inducing comprises replating said neuroepithelial stem cells on a laminin-coated substrate.

3. The method of claim 2 wherein said inducing further comprises withdrawing a mitogen.

4. The method of claim 3 wherein said mitogen is FGF.

5. The method of claim 2 wherein said inducing further comprises withdrawing chick embryo extract.

6. The method of claim 1 wherein said inducing comprises withdrawing a mitogen.

7. The method of claim 6 wherein said mitogen is FGF.

8. The method of claim 1 wherein said inducing comprises withdrawing chick embryo extract.

1. **General Information**
 Name: [Name]
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 Date: [Date]

2. **Subject**
 Title: [Title]
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3. **Summary**
 [Summary text]

4. **Analysis**
 [Analysis text]

5. **Conclusion**
 [Conclusion text]

6. **References**
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10. **Comments**
 [Comments content]

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10. The method of claim 9 wherein said dorsalizing agent is a member selected from

5 11. The method of claim 10 wherein said dorsalizing agent is BMP-2.

12. The method of claim 10 wherein said dorsalizing agent is BMP-4.

13. The method of claim 10 wherein said dorsalizing agent is BMP-7.

14. A method of generating cells of the peripheral nervous system comprising the steps

of:

(a) inducing neuroepithelial stem cells to differentiate in vitro, thereby generating neural crest stem cells;

(b) inducing said neural crest stem cells to differentiate in vitro, thereby generating peripheral nervous system cells.